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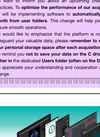
Introducing the September 2024 edition of the ICM.Quant Connect newsletter! 🥳

We are here to keep you informed with the latest updates on the ICM.Quant platform, your trusted ally for all things related to electron microscopy and photonics projects.

Welcome to Gabriel Jiménez & Karim Ourahmoun

We are thrilled to have Gabriel Jiménez and Karim Ourahmoun join the ICM.Quant platform team on the 1st of October!
Gabriel is an expert in **image analysis**, and he will bring his expertise to advise and guide you in your image analysis projects. He will be working closely with the Image Analysis team at DAC.
Karim has recently graduated as an engineer after completing an internship at the **electron microscopy** platform at the Institut Pasteur. He will be strengthening our electron microscopy team.
We are excited to have them on board and look forward to the contributions they will make to our platform!

Important Update: Automatic Data Deletion on User Folders

We want to inform you about an upcoming change to our data management practices. To **optimize the performance of our acquisition and analysis stations**, we will be implementing software to **automatically delete data older than one month from user folders**. This change will help prevent hard drive saturation and ensure smooth operations.
We would like to emphasize that the platform is not responsible for data loss. To safeguard your valuable data, please **remember to regularly back up your files to your personal storage space after each acquisition or analysis session**.
We remind you **not to save your data on the C: drive** of the facility computers, **but rather** in the dedicated **Users folder (often on the D drive)**.
We appreciate your understanding and cooperation as we implement this important change.

Introducing MACS® iQ View: Simplified Data Stitching for the UltraMicroscope Blaze

We are excited to announce that the MACS® iQ View **stitching software is now available for the UltraMicroscope Blaze from Miltenyi**. This powerful tool streamlines the process of stitching large volumes of data acquired with the UltraMicroscope Blaze, making it easier than ever to visualize and analyze your images. For more details, visit here.

Learn more

Testing of Openiris Agent on Apotome Microscopes

We are **currently testing the OpenIRIS agent on the Apotome 1 & 2 microscopes.** This agent tracks equipment **usage in real-time** and will soon be implemented across all microscopes on the platform.
What does this mean for users?
You will need to log in with your ICM credentials on the acquisition and analysis computers before accessing the desktop. At the end of your session, please remember to click "END SESSION." Your actual equipment usage will be recorded and billed accordingly, ensuring a fairer billing process.

Light Microscopy Training

A light Microscopy training is organized in collaboration with the Collège-de-France and the Institut Curie.
This training, which includes both **theoretical and practical** courses, will take place from **September 30th to 8th, 2024**, and is titled **"Fluorescence Microscopy for Biology: Wide-field, Confocal, Spinning Disk, Super-Resolution"**.
This continuing education opportunity is offered by CNRS-IFSEM and INSERM.
To register, please visit the IFSEM CNRS continuing education website (see below) or use the SIRENE portal of INSERM.

CNRS Training portal

Customize Your Email Notifications on the Openiris Booking Platform

Users on the **Openiris** booking platform can configure their own **email notifications** for any scheduled resource by clicking on the "bell" icon. These customizable notifications can include:

- Alerts for new, modified, or canceled bookings
- Notifications of slot availability
- Updates on any issues related to the resource

Take advantage of this feature to stay informed and up-to-date!

Link to LUMIC

Link to IBiSA

ICM.Quant: A Premier Imaging Resource

ICM.Quant: Your Gateway to Cutting-Edge Imaging
Did you know that ICM.Quant is part of the LUMIC network at Sorbonne University, a certified IBiSA facility? LUMIC is a Sorbonne University network of platforms specializing in imaging and cytometry. It offers training, research, and development services in these fields. LUMIC supports research in biology and medicine by bringing together experts from diverse backgrounds and fostering innovation. LUMIC is open to all academic and industrial researchers.

Statistically Speaking: Sample Size Matters in Microscopy

Stronger data, less rework! A recent JCB article, "Determining the Average Number of Cells for Statistical Tests of Microscopy Experiments", emphasizes the importance of upfront sample size planning.
Proper planning ensures:

- Reduced animal usage: Justify animal numbers statistically.
- Saved time & resources: Fewer repeat experiments due to insufficient data.
- Efficient microscopy sessions: Plan based on sample needs.

This JCB resource empowers you to determine optimal sample size for robust results and efficient microscopy. Don't wait - plan for strong data from the start!

Link to article

ECHO Microscopes Demonstration at ICM

We are pleased to announce that **ECHO** will be hosting a **demonstration of their microscopes at the ICM from October 8th to 10th, 2024.** The company will showcase their spinning disk (Revolution) as well as their Revolve and Rebel microscopes.
You can visit their website for more information. We will follow up with details on how to register for the demonstration and test their equipment with your own samples.

ECHO website

Tips and Tricks 😉 : Advantages of Deconvolution in Fluorescence Microscopy

Deconvolution is a powerful image processing technique that significantly enhances the quality of fluorescence microscopy data. By computationally **removing the optical blur introduced by the microscope's imaging system**, deconvolution provides several key advantages:

- Improved Resolution: Deconvolution effectively increases spatial resolution, allowing for the visualization of finer structural details within the sample.
- Enhanced Contrast: By reducing background noise and enhancing signal-to-noise ratio, deconvolution produces images with greater clarity and contrast.
- Accurate 3D Reconstruction: For volumetric data, deconvolution enables more precise 3D reconstructions,facilitating quantitative analysis and colocalization studies.

To maximize the benefits of deconvolution, careful consideration of algorithm selection, parameter optimization, and potential combination with other image processing methods is essential.

Learn more

New Zeiss CellDiscoverer 7 Microscope Coming Soon!

We're thrilled to announce the **upcoming arrival of a Zeiss CellDiscoverer 7 microscope to our facility!** This advanced automated microscope will revolutionize our imaging capabilities, offering high-quality, high-throughput imaging for live-cell studies. With its environmental control, automated focus, and versatile imaging modes, the CellDiscoverer 7 will enable us to explore new research avenues and generate groundbreaking results. Stay tuned for more updates on the installation and training opportunities.

Learn more

New Wiki Available to Assist with OpenIRIS

We're pleased to announce that a new **wiki is now available to help you navigate OpenIRIS** (https://ris.icm-institute.org/), the platform used by ICM.Quant for managing various tasks such as equipment reservations, training requests, incident reporting, and more. To learn how to effectively use OpenIRIS, visit **https://wiki.openiris.io**. The wiki provides detailed information on how to log in, request training, receive notifications, and explore other useful features.

ICM.Quant Enhances Quality with ROQ Support

ICM.Quant is excited to announce the **implementation of a new quality process to further improve our facility.** With the invaluable support of the **ROQ** service, we are committed to delivering the highest standards. This initiative reflects our ongoing dedication to providing exceptional support to our research community.

Recognizing Contributions:

When publishing results derived from the ICM.Quant platform, we kindly remind you to **acknowledge the platform**. In cases where it is justified, consider adding the relevant team member(s) as co-author(s). This not only highlights the collaborative effort but also plays a crucial role in justifying the platform's activity and visibility.

Learn more

Thank you all for using the ICM.Quant platform. We strongly believe in the spirit of sharing! 🤝

ICM.Quant

Our mailing address is: